Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 19F01525
Received: Sep 03, 2019
Reported: Sep 25, 2019
Purchase Order No.
None Received

Customer ID: 03522Z
Account ID: Z00372

Russell Huffman
Desert View Power, Inc.
62-300 Gene Welmas Drive
Mecca, CA 92254-0758

ANALYTICAL REPORT

By: _____
Mark A. Pugh
Fuel Laboratory Manager

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ANALYTICAL REPORT

Russell Huffman
Desert View Power, Inc.

Customer Sample ID	Boiler Fuel Feed 8/26/19
Lab Sample ID	19F01525-001
pH of a 25% Mixture	5.96

By:

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Fuel Laboratory Manager

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ANALYTICAL REPORT

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Desert View Power, Inc.

Customer Sample ID		Boiler Fuel Feed 8/26/19
Lab Sample ID		19F01525-001
Sodium in Ash as Na2O	%	3.15
Potassium in Ash as K2O	%	3.67
Chlorine in Ash	%	0.36
Carbon Dioxide in Ash	%	0.80

The sample was ashed at 600 degrees celsius prior to analysis.

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ANALYTICAL REPORT

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Desert View Power, Inc.

Client Sample ID **Boiler Fuel Feed 8/26/19**
Lab Sample ID 19F01525-001

Reporting Basis >	As Rec'd	Dry	Air Dry
Proximate (%)			
Moisture	20.88	0.00	3.25
Ash	10.40	13.15	12.72
Volatile	53.81	68.01	65.80
Fixed C	14.91	18.84	18.23
Total	100.00	100.00	100.00
Sulfur	0.204	0.257	0.249
Btu/lb (HHV)	5770	7293	7056
Btu/lb (LHV)	5143	6772	
MMF Btu/lb	6497	8499	
MAF Btu/lb		8397	
Ultimate (%)			
Moisture	20.88	0.00	3.25
Carbon	35.31	44.63	43.18
Hydrogen	4.45	5.62	5.44
Nitrogen	0.60	0.75	0.73
Sulfur	0.204	0.257	0.249
Ash	10.40	13.15	12.72
Oxygen*	28.16	35.59	34.43
Total	100.00	100.00	100.00
Chlorine**	0.141	0.178	0.172

Air Dry Loss (%) 18.22

Forms of Sulfur, as S, (%)

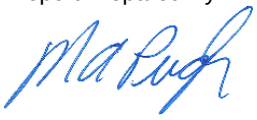
Sulfate		
Pyritic		
Organic		
Total	0.204	0.257

Water Soluble Alkalies (%)

Na2O	0.092	0.116
K2O	0.298	0.377

Lb. Alkali Oxide/MM Btu = 1.23
Lb. Ash/MM Btu= 18.03
Lb. SO2/MM Btu= 0.706
Lb. Cl/MM Btu= 0.24
F-Factor(dry),DSCF/MM Btu= 9,957

Report Prepared By:



Mark A. Pugh
Fuel Laboratory Manager

* Oxygen by difference
** Not usually reported as part of the ultimate analysis.

1525

HAZEN

Hazen research Inc.
4601 Indiana St. Golden Co. 80403
Tel: (303) 279 - 4501
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SAMPLE SUBMITTAL FORM

Sample Identification **BOILER FUEL FEED** Date 8-26-19

- X Ultimate, Proximate, & BTU
- ____ Ultimate
- ____ Proximate
- ____ Moisture
- ____ Ash
- ____ Sulfur
- ____ Calorific Value. BTU / lb
- X Chlorine
- ____ Elemental Analysis of ash (Si, A1, Ti, Fe, Ca, Mg, Na, K, P, S as oxides)
- X Chlorine in ash
- X Carbon Dioxide in ash
- ____ Fusion temperatures of ash (oxidizing & reducing)
- X Water soluble alkalis (Na2O & K2O)
- ____ Water soluble calcium (CaO)
- X Alkali, Lbs / MMBTU (Need Na2O & K2O in ash If Elemental is not run)
- ____ Sodium in ash (Na2O)
- ____ Potassium in ash (K2O)

Submit samples to:

Hazen research, Inc.
Attn: Gerard H Cunningham
4601 Indiana St.
Golden, Colorado 80403

Reports & Billing to:

Colmac Energy, Inc.
Paula Bates
Po Box 758
Mecca, Ca. 92254- 0758